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phoronix_linear_algebra.txt

Intel Core i9-7900X testing with a ASUS WS X299 PRO (3101 BIOS) and MSI NVIDIA GeForce GTX 1070 8GB on Arch Linux via the Phoronix Test Suite.

Test Systems:

Linear Algebra

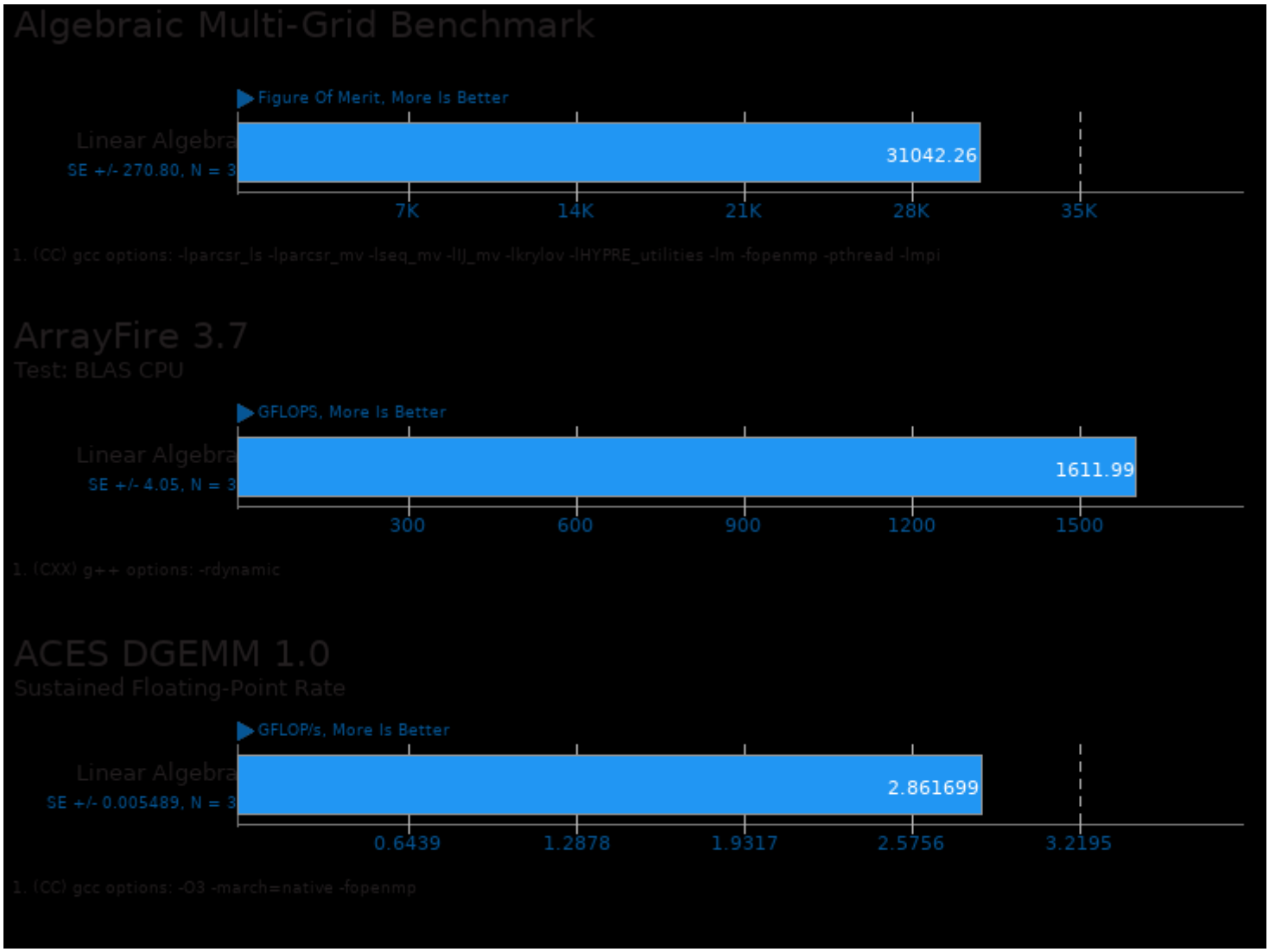
Processor: Intel Core i9-7900X @ 4.30GHz (10 Cores), Motherboard: ASUS WS X299 PRO (3101 BIOS), Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 126GB, Disk: Samsung SSD 960 EVO 250GB + 1000GB Samsung SSD 850, Graphics: MSI NVIDIA GeForce GTX 1070 8GB (139/405MHz), Audio: Realtek ALC1220, Monitor: DELL U2412M, Network: 2 x Intel I210

OS: Arch Linux, Kernel: 5.8.3-arch1-1 (x86_64), Display Server: X Server 1.20.8, Display Driver: NVIDIA 450.66, OpenCL: OpenCL 1.2 CUDA 11.0.228, Compiler: GCC 9.3.0 + Clang 10.0.1 + CUDA 11.0, File-System: ext4, Screen Resolution: 1920x1200

Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-multilib --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty

--enable-languages=c,c++,fortran,lto --enable-lto --enable-plugin --enable-shared --enable-threads=posix --enable-version-specific-runtime-libs --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0x2006906
OpenCL Notes: GPU Compute Cores: 1920
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + l1tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT disabled + mds: Mitigation of Clear buffers; SMT disabled + meltdown: Mitigation of PTI + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full generic retpoline IBPB: conditional IBRS_FW RSB filling + srbds: Not affected + tsx_async_abort: Mitigation of Clear buffers; SMT disabled

	Linear Algebra
Algebraic Multi-Grid Benchmark (Figure Of Merit)	31042
Standard Deviation	1.5%
ArrayFire - BLAS CPU (GFLOPS)	1612
Standard Deviation	0.4%
ACES DGEMM - S.F.P.R (GFLOP/s)	2.861699
Standard Deviation	0.3%



This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 09:31.